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EXPERIMENTAL INVESTIGATION OF THE REFLECTION OF A
PLANAR SHOCK WAVE OVER A... (U) BEN-GURION UNIV OF THE
NEGEV BEERSHEVA (ISRAEL) G BEN-DOR 30 NOV 87

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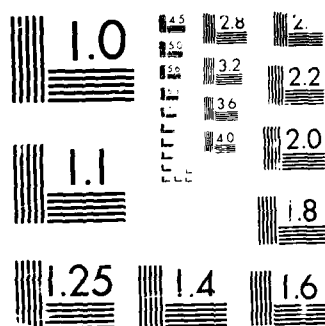
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Experimental Investigation of the Reflection of a Planar Shock
Wave over a Double Wedge

1st Periodical Report
by
Professor G. Ben-Dor

Period: Oct. 1 - Nov. 30, 1987

Contract: DAJA 45-87-C-0042

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I. Work completed during the reported period:

1. Experiments of the reflection of a planar shock wave over various double wedge combinations have been conducted.
2. The experiments were conducted with $M_i = 1.3$ and a variety of $\theta_w^1 - \theta_w^2$ combinations.
3. The experiments were recorded using schlieren photography, shadowgraphs and high-speed photography.

II. Work to be done in the remaining period of the contract.

1. Complete the experimental study to cover the entire $\{\theta_w^1 - \theta_w^2\}$ -plane and other values of incident shock wave Mach numbers.
2. Evaluate the experiments and compare them with the analysis developed by Ben-Dor & Dewey.
3. Conduct pressure measurements along the first and second surfaces of the double wedge for various $\theta_w^1 - \theta_w^2$ combinations and evaluate the results.
4. Develop a numerical code to simulate the phenomenon.

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